

CLASSIFICATION: 08 88 00

PRODUCT DESCRIPTION: SageGlass® is the pioneer of the world's smartest dynamic glass and is transforming the indoor experience for people by connecting the built and natural environments. Electronically tintable SageGlass tints or clears on demand to control sunlight and prevent heat and glare without the need for blinds or shades. SageGlass dramatically reduces energy demand and the need for HVAC by blocking up to 91 percent of solar heat. As part of Saint-Gobain, SageGlass is backed by more than 350 years of building science expertise that only the world leader in sustainable environments can provide.

Section 1: Summary Nested Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method</p> <p><input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Per OSHA MSDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Residuals/Impurities Considered in 10 of 10 Materials</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></p>
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CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

GLASS [AMORPHOUS SILICA LT-P1 | CAN SODIUM OXIDE LT-UNK
 CALCIUM OXIDE LT-P1 | MAGNESIUM OXIDE (MGO) LT-UNK | CAN
 ALUMINUM OXIDE BM-2 | RES] INTERLAYER [2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHENE, SODIUM SALT LT-UNK UV-328 LT-1 | PBT | MUL] SECONDARY SEALANT [SILANOL TERMINATED POLYDIMETHYLSILOXANE BM-2 | CALCIUM CARBONATE BM-3 | STEARIC ACID LT-P1 | END 1,2-ETHANEDIAMINE, N-[3-(TRIMETHOXSILYL)PROPYL]- LT-UNK 1,6-BIS (TRIMETHOXSILYL) HEXANE NoGS AMINOPROPYLTRIMETHOXSILANE RXN WITH GLYCIDOXY- PROPYLTRIMETHOXSILANE AND METHYLTRIMETHOXSILANE Not Screened CARBON BLACK LT-1 | CAN
 CYCLOTETRASILOXANE BM-1 | END | PBT | MUL | REP SILOXANES AND SILICONES, DI-ME LT-P1 | PBT TRIMETHOXY(METHYL)SILANE BM-1]
 SPACER [STEEL MANUFACTURE, CHEMICALS LT-UNK]
 ELECTROCHROMIC FILM [UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | CAN UNDISCLOSED LT-P1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | RES | CAN | SKI | MAM | MUL | AQU] PRIMARY SEALANT [1-PROPENE, 2-METHYL-, HOMOPOLYMER LT-UNK CARBON BLACK LT-1 | CAN SILICA GEL, PPTD., CRYST.-FREE LT-UNK SILICA, AMORPHOUS, FUMED, CRYST.-FREE LT-P1 | CAN TALC BM-1 | CAN] SPACER JOINER [NYLON 6 LT-UNK STEEL MANUFACTURE, CHEMICALS LT-UNK]
 DESICCANT [AMORPHOUS SILICA LT-P1 | CAN ZEOLITES OTHER THAN ERIONITE (CLINOPTILOLITE, PHILLIPSITE, MORDENITE, NON-FIBROUS

Number of Greenscreen BM-4/BM3 contents ... 1
 Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
 Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Residential scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-03-29

PUBLISHED DATE: 2019-03-29

EXPIRY DATE: 2022-03-29



Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

GLASS

#: 87.2500 - 100.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

AMORPHOUS SILICA

ID: 7631-86-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 66.5000 - 72.5000

GS: LT-P1

RC: None

NANO: Unknown

ROLE: Glass Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

SODIUM OXIDE

ID: 1313-59-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 11.2500 - 15.7500

GS: LT-UNK

RC: None

NANO: Unknown

ROLE: Glass Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES:

CALCIUM OXIDE

ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 5.7500 - 7.5000

GS: LT-P1

RC: None

NANO: Unknown

ROLE: Glass Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

MAGNESIUM OXIDE (MGO)

ID: 1309-48-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **3.2500 - 5.0000**

GS: **LT-UNK**

RC: **None**

NANO: **Unknown**

ROLE: **Glass Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

ALUMINUM OXIDE

ID: 1344-28-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.5000 - 1.5000**

GS: **BM-2**

RC: **None**

NANO: **Unknown**

ROLE: **Glass Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagen	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

INTERLAYER

#: **2.0100 - 2.9000**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHENE, SODIUM SALT

ID: 25608-26-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

?: **2.0000 - 2.8500**

GS: **LT-UNK**

RC: **None**

NANO: **Unknown**

ROLE: **Spacer Material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

UV-328

ID: 25973-55-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

?: **0.0100 - 0.0500**

GS: **LT-1**

RC: **None**

NANO: **Unknown**

ROLE: **Spacer Material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

PBT	EU - SVHC Authorisation List	PBT - Candidate list
PBT	EU - SVHC Authorisation List	PBT - Prioritized for listing
PBT	EU - SVHC Authorisation List	vPvB - Candidate list
PBT	EU - SVHC Authorisation List	vPvB - Prioritized for listing
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Substance of Possible Concern
PBT	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES:

SECONDARY SEALANT

?: **1.2700 - 1.9900**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.**

OTHER MATERIAL NOTES:

SILANOL TERMINATED POLYDIMETHYLSILOXANE

ID: 70131-67-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.6000 - 0.7000**GS: **BM-2**RC: **None**NANO: **Unknown**ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.5500 - 0.8500**GS: **BM-3**RC: **None**NANO: **Unknown**ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

STEARIC ACID

ID: 57-11-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.0500 - 0.0900**GS: **LT-P1**RC: **None**NANO: **Unknown**ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE**TEDX - Potential Endocrine Disruptors****Potential Endocrine Disruptor**

SUBSTANCE NOTES:

1,2-ETHANEDIAMINE, N-[3-(TRIMETHOXYSILYL)PROPYL]-

ID: 1760-24-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.0100 - 0.0500**GS: **LT-UNK**RC: **None**NANO: **Unknown**ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

1,6-BIS (TRIMETHOXYSILYL) HEXANE

ID: 87135-01-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**

#: 0.0100 - 0.0500

GS: NoGS

RC: None

NANO: Unknown

ROLE: Sealent Additive

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

**AMINOPROPYLTRIETHOXYSILANE RXN WITH GLYCIDOXY-
PROPYLTRIMETHOXYSILANE AND METHYLTRIMETHOX-YSILANE**

ID: 474530-85-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: 0.0100 - 0.0500

GS: **Not Screened**

RC: **None**

NANO: **Unknown**

ROLE: **Sealent Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: This material is not found in the HPD Builder or Toxnot Databases.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: 0.0100 - 0.0500

GS: **LT-1**

RC: **None**

NANO: **Unknown**

ROLE: **Sealent Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

CYCLOTETRASILOXANE

ID: 556-67-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: 0.0100 - 0.0500

GS: **BM-1**

RC: **None**

NANO: **Unknown**

ROLE: **Sealent Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
PBT	EU - ESIS PBT	Under PBT evaluation
PBT	EU - SVHC Authorisation List	PBT - Candidate list
PBT	EU - SVHC Authorisation List	vPvB - Candidate list
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

SUBSTANCE NOTES:

SILOXANES AND SILICONES, DI-ME

ID: 63148-62-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **LT-P1**

RC: **None**

NANO: **Unknown**

ROLE: **Sealant Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES:

TRIMETHOXY(METHYL)SILANE

ID: 1185-55-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **BM-1**

RC: **None**

NANO: **Unknown**

ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

SPACER

%: 0.2500 - 0.9900

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.**

OTHER MATERIAL NOTES:

STEEL MANUFACTURE, CHEMICALS

ID: **65997-19-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: 0.2500 - 0.9900

GS: **LT-UNK**

RC: **None**

NANO: **Unknown**

ROLE: **Formation/Structure**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

ELECTROCHROMIC FILM

%: 0.0500 - 0.2500

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.**

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: 0.0100 - 0.0500

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Film Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Film Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Film Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

IARC

Group 2B - Possibly carcinogenic to humans

CANCER

Japan - GHS

Carcinogenicity - Category 1B

SUBSTANCE NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Film Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

#: **0.0100 - 0.0500**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Film Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H350i - May cause cancer by inhalation
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CHRON AQUATIC	Korea - GHS	H413 - May cause long-lasting harmful effects to aquatic life
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

PRIMARY SEALANT

#: 0.0500 - 0.2500

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

1-PROPENE, 2-METHYL-, HOMOPOLYMER

ID: 9003-27-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

%: **0.0100 - 0.0500** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Sealent Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES:

CARBON BLACK

ID: **1333-86-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

%: **0.0100 - 0.0500** GS: **LT-1** RC: **None** NANO: **Unknown** ROLE: **Sealent Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
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CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
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CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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SUBSTANCE NOTES:

SILICA GEL, PPTD., CRYST.-FREE

ID: **112926-00-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

%: **0.0100 - 0.0500** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Sealent Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES:

SILICA, AMORPHOUS, FUMED, CRYST.-FREE

ID: **112945-52-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

%: **0.0100 - 0.0500** GS: **LT-P1** RC: **None** NANO: **Unknown** ROLE: **Sealent Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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CANCER	Japan - GHS	Carcinogenicity - Category 1A
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CANCER	Australia - GHS	H350i - May cause cancer by inhalation
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SUBSTANCE NOTES:

TALC

ID: 14807-96-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.0100 - 0.0500**GS: **BM-1**RC: **None**NANO: **Unknown**ROLE: **Sealant Additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER**IARC****Group 2B - Possibly carcinogenic to humans****CANCER****MAK****Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**

SUBSTANCE NOTES:

SPACER JOINER%: **0.0200 - 1.0000**PRODUCT THRESHOLD: **100 ppm**RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

NYLON 6

ID: 25038-54-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.0100 - 0.5000**GS: **LT-UNK**RC: **None**NANO: **Unknown**ROLE: **Spacer Material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

STEEL MANUFACTURE, CHEMICALS

ID: 65997-19-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-29**%: **0.0100 - 0.5000**GS: **LT-UNK**RC: **None**NANO: **Unknown**ROLE: **Spacer Material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

DESICCANT

%: 0.0200 - 0.1000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

AMORPHOUS SILICA

ID: 7631-86-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

%: 0.0100 - 0.0500

GS: LT-P1

RC: None

NANO: Unknown

ROLE: Dessicant Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

ZEOLITES OTHER THAN ERIONITE (CLINOPTILOLITE, PHILLIPSITE, MORDENITE, NON-FIBROUS JAPANESE ZEOLITE, SYNTHETIC ZEOLITES)

ID: 1318-02-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

%: 0.0100 - 0.0500

GS: LT-UNK

RC:

None

NANO:

Unknown

ROLE: Dessicant

Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

CONNECTOR

%: 0.0100 - 0.0900

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.

OTHER MATERIAL NOTES:

COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

?: **0.0100 - 0.0900**

GS: **LT-UNK**

RC: **None**

NANO: **Unknown**

ROLE: **Formation/Structure**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

GAS

?: **0.0100 - 0.1000**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities have been considered. All raw materials have been identified and screen thru the HPD Builder. The only raw material not disclosed are proprietary but have still been screened in the Builder to identify any and all hazards.**

OTHER MATERIAL NOTES:

ARGON

ID: 7440-37-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

?: **0.0100 - 0.1000**

GS: **LT-UNK**

RC: **None**

NANO: **Unknown**

ROLE: **Gas**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CDPH Standard Method V1.2 (Section 01350/CHPS) - Residential scenario

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **Eurofins**

APPLICABLE FACILITIES: **All**

01-15

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: The tested product complies with the requirements of the "Standard method for the testing and evaluation of volatile organic chemical emissions from indoor sources using environmental changes (version 1.2)" as defined by the California Department of Public Health (CDPH) - Version of January 2017. The results of the tests show that SageGlass TGU complies with the following regulations/certifications: • French VOC Regulation (FR) • French CMR components (FR) • AgBB/ABG (GER) • Belgian Regulation (BEL) • Indoor Air Comfort® (Europe) • BREEAM International

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

All raw materials have been screened thru the Builder, additional information with regards to warranty and technical information can be found on the website <https://www.sageglass.com>



MANUFACTURER INFORMATION

MANUFACTURER: **Saint Gobain**

ADDRESS: **2 Sage Way**

Faribault MN 55021, USA

WEBSITE: <https://www.sageglass.com>

CONTACT NAME: **Maure Creager**

TITLE: **Building Science Manager, LEED AP BD+C**

PHONE: **507 331 4927**

EMAIL: maure.creager@sageglass.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.